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NOTICE OF ALLOWANCE AND FEE(S) DUE

64770 7590 08/21/2009

TITLE OF INVENTION: OPTICAL FIBRE ALIGNMENT MECHANISM

Momkus McCluskey, LLC 1001 Warrenville Road, Suite 500 Lisle, IL 60532 EXAMINER

DOAN, JENNIFER

ART UNIT PAPER NUMBER

ART UNIT

DATE MAILED: 08/21/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,390	01/31/2007	Adrian Kendall	35832.000118	7962

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(S) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 11/23/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includired below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of r a) specifying a new corres	naintenance fees wil spondence address; a	Il be mailed to the currer and/or (b) indicating a se	tt correspondence address as parate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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						(Depositor's name)	
			_			(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/537,390	01/31/2007	•	Adrian Kendall		35832.000118	7962	
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/23/2009	
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
DOAN, JI	ENNIFER	2874	385-052000				
1. Change of corresponde CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on the p		1		
	ondence address (or Cha	nge of Correspondence	(1) the names of up to or agents OR, alternation	3 registered patent rely,	attorneys 1		
Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
"Fee Address" indication (or "Fee Address" Indication form PTO/8B/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2 registered patent attorneys or agents. If no name is 3 listed, no name will be printed.				
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or tyr	ne)			
PLEASE NOTE: Uni	ess an assignee is ident	ified below, no assignee	data will appear on the p	atent. If an assigned	is identified below, the	document has been filed for	
(A) NAME OF ASSI		netion of this form is NO	(B) RESIDENCE: (CITY				
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Please check the appropr	iate assignee category or	categories (will not be pr	inted on the patent):	Individual 🚨 Cor	poration or other private g	roup entity 🚨 Government	
4a. The following fee(s)	are submitted:	48	o. Payment of Fee(s): (Plea	se first reapply any	previously paid issue fe	e shown above)	
Issue Fee			A check is enclosed.				
Publication Fee (N	to small entity discount p	permitted)	Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
			overpayment, to Depo	sit Account Number	(enclose	an extra copy of this form).	
5. Change in Entity Sta	tus (from status indicate s SMALL ENTITY statu		D b. Applicant is no lon	our claiming SMAT	ENTITY status. Sec 37 (PDD 1.97(a)(2)	
						the assignee or other party in	
interest as shown by the	records of the United Sta	tes Patent and Trademark	Office.				
Authorized Signature				Date			
Typed or printed name				Registration No			
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Momkus McClus	skey, LLC	DOAN, JENNIFER		
1001 Warrenville F	Road, Suite 500	ART UNIT	PAPER NUMBER	
Lisle, IL 60532				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability Application No. Applicant(s) 10/537,390 KENDALL, ADRIAN Examiner Art Unit Jennifer Doan 2874 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--sheing allowable PROSECUTION ON THE MERITS IS OR REMAINS) CLOSED in this application. If not included

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS is (OR REMAINS) CLOSED in this application. If not include herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition but the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to amendment filed 5/7/09.
- The allowed claim(s) is/are 1-23 and 32-38.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date _
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. ☐ Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other ___

/Jennifer Doan/

Primary Examiner, Art Unit 2874

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DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed on 05/07/09 has been fully considered and entered.

Reasons for Allowance

- Claims 1-23 and 32-38 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to disclose or reasonably suggest all the limitations of claim 1. Specifically, the prior art fails to disclose a method for forming an apparatus for aligning and fixing an optical fiber relative to an optical source, comprising first and second fixing brackets, each fixing bracket including: a support member for attachment to a substrate; first and second cantilever arms extending from the support member in opposing directions, each cantilever arm including fiber engagement means for engaging with the optical fiber and cantilevered to engage the engagement means with the optical fiber; and the apparatus further comprising a substrate including support means for receiving the support members so as to dispose the first and second fixing brackets such that the fiber engagement means of the first fixing bracket oppose the fiber engagement means of the second fixing bracket, for receiving and supporting an optical fiber therebetween at two longitudinal positions of the optical fiber.

Claims 2-3, 6-11 and 13-23 depend from claim 1.

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The prior art of record also fails to disclose or reasonably suggest all the limitations of claim 4. Specifically, the prior art fails to disclose a method for forming an apparatus for aligning and fixing an optical fiber relative to an optical source, comprising first and second fixing brackets, each fixing bracket including: a support member for attachment to a substrate; first and second cantilever arms having different cross-sectional areas and extending from the support member in opposing directions, each cantilever arm including fiber engagement means for engaging with the optical fiber, and the apparatus further comprising a substrate including support means for receiving the support members so as to dispose the first and second fixing brackets such that the fiber engagement means of the first fixing bracket oppose the fiber engagement means of the second fixing bracket, for receiving and supporting an optical fiber therebetween at two longitudinal positions of the optical fiber.

Claim 5 depends from claim 4.

The prior art of record also fails to disclose or reasonably suggest all the limitations of claim 12. Specifically, the prior art fails to disclose a method for forming an apparatus for aligning and fixing an optical fiber relative to an optical source, comprising first and second fixing brackets, each fixing bracket including: a support member for attachment to a substrate comprising a channel running therethrough; first and second cantilever arms extending from the support member in opposing directions, each cantilever arm including fiber engagement means for engaging with the optical fiber; the

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apparatus further comprising a substrate including support means for receiving the support members so as to dispose the first and second fixing brackets such that the fiber engagement means of the first fixing bracket oppose the fiber engagement means of the second fixing bracket, for receiving and supporting an optical fiber therebetween at two longitudinal positions of the optical fiber; wherein the support means comprises a pair of blocks each adapted to engage with the respective channel of a respective support member.

The prior art of record also fails to disclose or reasonably suggest all the limitations of claim 32. Specifically, the prior art fails to disclose a method for forming a method for aligning and fixing an optical fiber relative to an optical source comprising the steps of positioning first and second fixing brackets cantilevered in the direction of the fiber on a substrate such that first and second fiber engagement means of the first fixing bracket oppose first and second fiber engagement means of the second fixing bracket; positioning an optical fiber intermediate the first and second fixing brackets for support therebetween at two longitudinal positions of the fiber; securing the first and second fixing brackets to the optical fiber at the points of contact of the fiber engagement means to the fiber; and adjusting the fiber alignment relative to the optical source, by adjusting the cantilevered fixing brackets.

Claim 33 depends from claim 32.

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The prior art of record also fails to disclose or reasonably suggest all the limitations of claim 34. Specifically, the prior art fails to disclose a method for forming a method for aligning and fixing an optical fiber relative to an optical source comprising the steps of positioning first and second fixing brackets on a substrate such that first and second fiber engagement means of the first fixing bracket oppose first and second fiber engagement means of the second fixing bracket; positioning an optical fiber intermediate the first and second fixing brackets for support therebetween at two longitudinal positions of the fiber; securing the first and second fixing brackets to the optical fiber at the points of contact of the fiber engagement means to the fiber; adjusting the fiber alignment relative to the optical source comprising the steps of: distorting a first cantilever arm of each of the first and second fixing brackets; generating a resultant distortion in a second cantilever arm of each of the first and second fixing brackets in response to the distortion in the first cantilever arm; and correcting the alignment of the optical fiber as a consequence of the cantilever arm distortions.

Claims 35-38 depend from claim 34.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer Doan whose telephone number is (571) 272-2346. The examiner can normally be reached on Monday to Thursday from 6:00am to 3:30pm, second Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Uyen-Chau Le can be reached on (571) 272-2397. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jennifer Doan/ Primary Examiner, Art Unit 2874